HEI
WORCESTERSHIRE
Higher Education Institute

EVERYONE HAS AN INNER GENIUS

We can help you find yours

Join our graduates and fast track your way to a successful career

TEF Silver

AWARDED SILVER IN THE 2017 TEACHING EXCELLENCE FRAMEWORK

Course Validated by

edexcel

HNC
Electrical and Electronic

Our Electrical/Electronic Engineering courses provide you with a vocational programme of study that you can take straight into the workplace.

COURSE OVERVIEW

The Higher National Certificate in Electrical and Electronic Engineering is a tried and tested programme which combines academic study, with the students own work based development of practical skills, in order to achieve a higher level qualification. The purpose of the qualification is to equip students with the knowledge and skills necessary to develop their careers from technician level to more senior positions within their employment. The course will put an emphasis on applied learning, developing skills and knowledge and applying these within the workplace.

WHAT WILL I BE DOING?

You will study a selection of the following modules according to staff availability and student preference; modules may be subject to change.

– **Further Mathematics for Engineering Technicians**
A preparation mathematics module that is taught across all of our HNC/HND programmes to provide a good base and preparation for the Analytical Methods module.

– **Analytical Methods - Core Module**
A mathematics module, taught across all HNC/HND programmes, providing contextualised analysis of mathematics in engineering situations.

– **Engineering Science (Mechanical and Electrical) - Core Module**
A science module, taught across all HNC/HND programmes, to provide a good general engineering science base for any engineering subject.

LOCATION
WORCESTER
WELE-HC4-1820

COURSE LENGTH
18 months (part-time)

TUITION FEES
£4,000 per year

AWARD ON SUCCESSFUL COMPLETION
Pearson HNC Electrical and Electronic Engineering

HOW TO APPLY
Please apply through our website at www.howcollege.ac.uk

For further information please visit howcollege.ac.uk
or email our HE Admissions team headmissions@howcollege.ac.uk

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– Project Design, Implementation and Evaluation
Usually a work-based project to develop skills of independent enquiry demonstrating project management skills relevant to the students own employment and ambitions.

– Electrical and Electronic Principles
This module will provide an understanding of electrical and electronic principles used in a range of engineering careers and provides the basis for further study of more specialist areas of electrical/electronic engineering.

– Instrumentation and Control Principles
The aim of this module is to introduce the principles and practice of instrumentation and control in process industries.

– Programmable Logic Controllers
The aim of this module is to investigate programmable logic controller (PLC) concepts and their applications in engineering.

– Combination and Sequential Logic
This module will provide the skills and understanding required to design and build electronic circuits that use combinational and sequential logic.

ENTRY REQUIREMENTS
Level 3 qualification in a suitable discipline or for mature students relevant industrial experience may be considered.

DELIVERY INFORMATION
Part-time classroom based delivery from 08.45 to 17.30 one day per week (day to be confirmed). In addition to this you are expected to complete an average of 3 hours independent study per week.

METHODS OF ASSESSMENT
A range of assessment techniques which may include; written assignments, examinations, work-based projects and verbal presentations.

STAFF EXPERIENCE
The course will be delivered by a blend of experienced staff that have a wide and extensive range of qualifications and vocational knowledge. All staff have industrial experience in their chosen focus of study and complete frequent scholarly activities to update their knowledge and skills. This breadth and depth of module specific knowledge and experience allows the team to introduce the modules using innovative approaches and vocational context in the classroom which emulates with work based learners.

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